



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

E.S. Windows, LLC  
3550 NW 49<sup>th</sup> Street  
Miami, FL 33142

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "ES-SW340 Thermally Broken" Aluminum Horizontal Sliding Window – S.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W16-22**, titled "ES-SW340 Thermal Aluminum Sliding Wdw. (S.M.I)", sheets 1 through 11 of 11, dated 04/07/16, with revision **C** dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

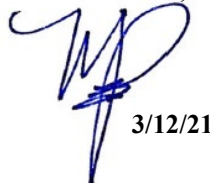
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **18-0221.05** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
3/12/21

NOA No. **20-1202.05**  
Expiration Date: **August 25, 2026**  
Approval Date: **March 25, 2021**  
age 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 15-0305.02)*
2. Drawing No. **W16-22**, titled "ES-SW340 Thermal Aluminum Sliding Wdw. (S.M.I)", sheets 1 through 11 of 11, dated 04/07/16, with revision **B** dated 02/07/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 18-0221.05)*

**B. TESTS**

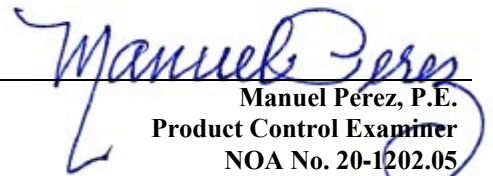
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Small Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
7) Standard Test Method for Determination of Operating Force of Sliding Windows and Doors per ASTM E 2068-00 (2008)  
8) Forced Entry Test, per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of a horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7903**, dated 03/15/16, signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 15-0305.02)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 5<sup>th</sup> Edition (2014)**, dated 04/01/16, revised on 07/25/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 15-0305.02)*
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 20-1202.05  
Expiration Date: August 25, 2026  
Approval Date: March 25, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**E. MATERIAL CERTIFICATIONS**

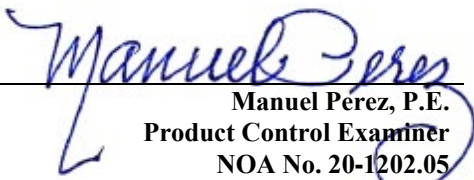
1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.
3. 0.315-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (8x6.6x0.15mm) Aluminum Low Profile Insulated-Glass spacer **Helima AH 800 N** (P/N.: USA K 001 000 000 R7) with Aluminum Alloy **AW-3000** ( $F_{t_u}=17$  ksi and  $F_{t_y}=12$ ksi) by **Helmut Lingemann GmbH & Co., KG.** (Helima).
4. Ensinger, GmbH Part No. **Tecatherm 66 GF Insulbar** complying with ASTM D638 Tensile Strength of 13,031 psi, ASTM D 1929 Self Ignition 793°F and Flash Ignition – 781°F, ASTM D 2843 Smoke Density of 1.63, ASTM D 635 Rate of Burn 0.752 in./min., ASTM D 790 Flexural Modulus of 870 ksi, ASTM D 256 Notched Izod of 1.9 ft.-lb./in.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, and of no financial interest, dated February 6, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 18-0221.05)*
2. Distributor Agreement between ES Windows–Energia Solar, S.A., Barranquilla, Columbia, S.A. and ES Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.  
*(Submitted under NOA No. 15-0305.02)*
3. Laboratory compliance letter for Test Report No. **FTL-7903**, issued by Fenestration Testing Laboratory, Inc., dated 03/15/16, signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 15-0305.02)*
4. Proposal issued by Product Control, dated 02/10/14, signed by Jaime D. Gascon, P.E.  
*(Submitted under NOA No. 15-0305.02)*

**G. OTHERS**

1. Notice of Acceptance No. **15-0305.02**, issued to ES Windows, LLC for their Series "ES-SW340" Thermal Broken Aluminum Horizontal Sliding Window – S.M.I., approved on 08/25/16 and expiring on 08/25/21.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-1202.05  
Expiration Date: August 25, 2026  
Approval Date: March 25, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W16-22**, titled “ES-SW340 Thermal Aluminum Sliding Wdw. (S.M.I)”, sheets 1 through 11 of 11, dated 04/07/16, with revision **C** dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 5<sup>th</sup> Edition (2014)**, dated 04/01/16, revised on 07/25/16 and updated on 10/29/20 to comply with **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

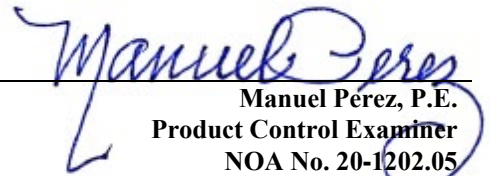
1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated October 29, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **18-0221.05**, issued to E.S. Windows, LLC for their Series “ES-SW340 Thermally Broken” Aluminum Horizontal Sliding Window – S.M.I., approved on 05/10/18 and expiring on 08/25/21.



**Manuel Perez, P.E.**

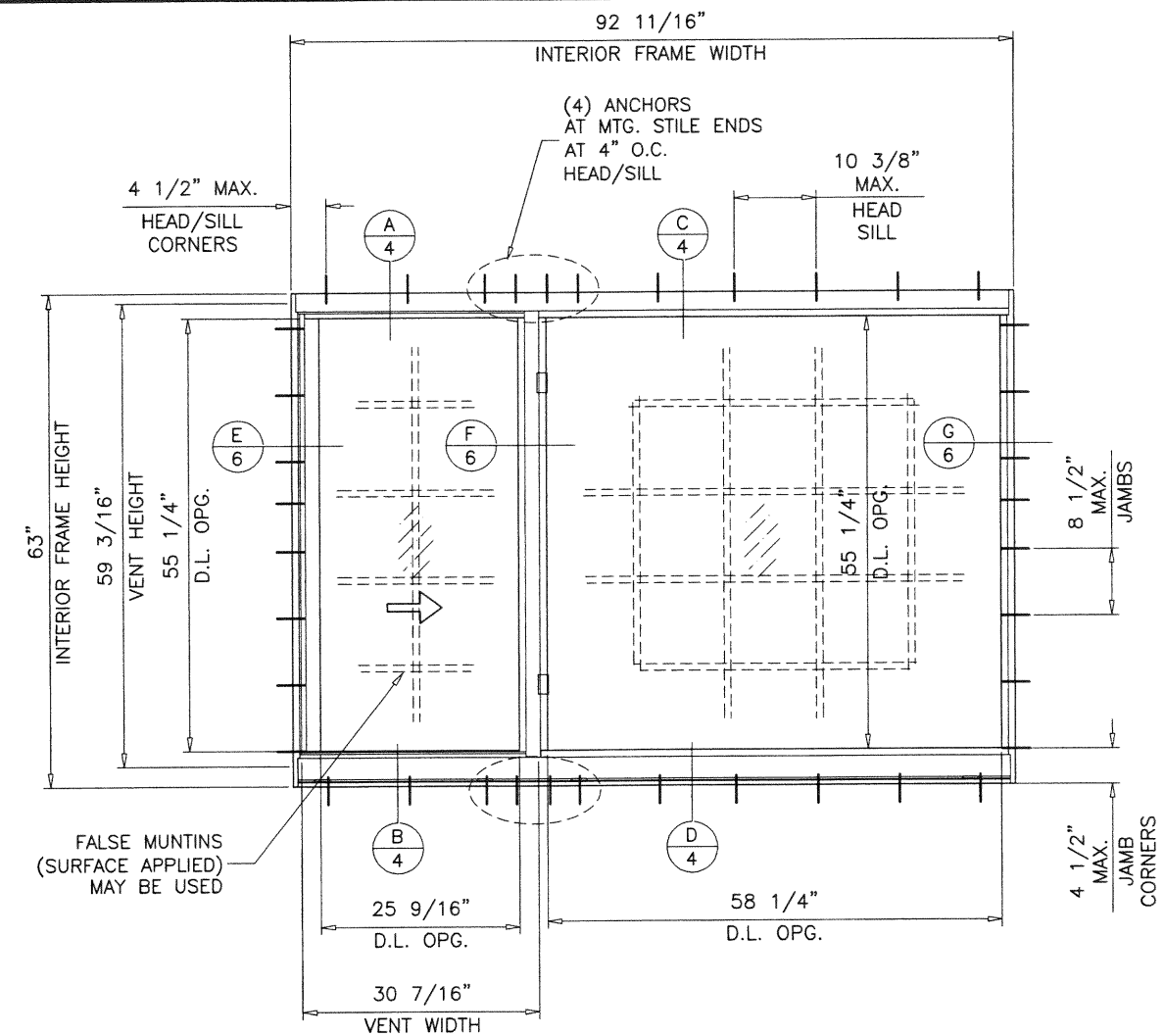
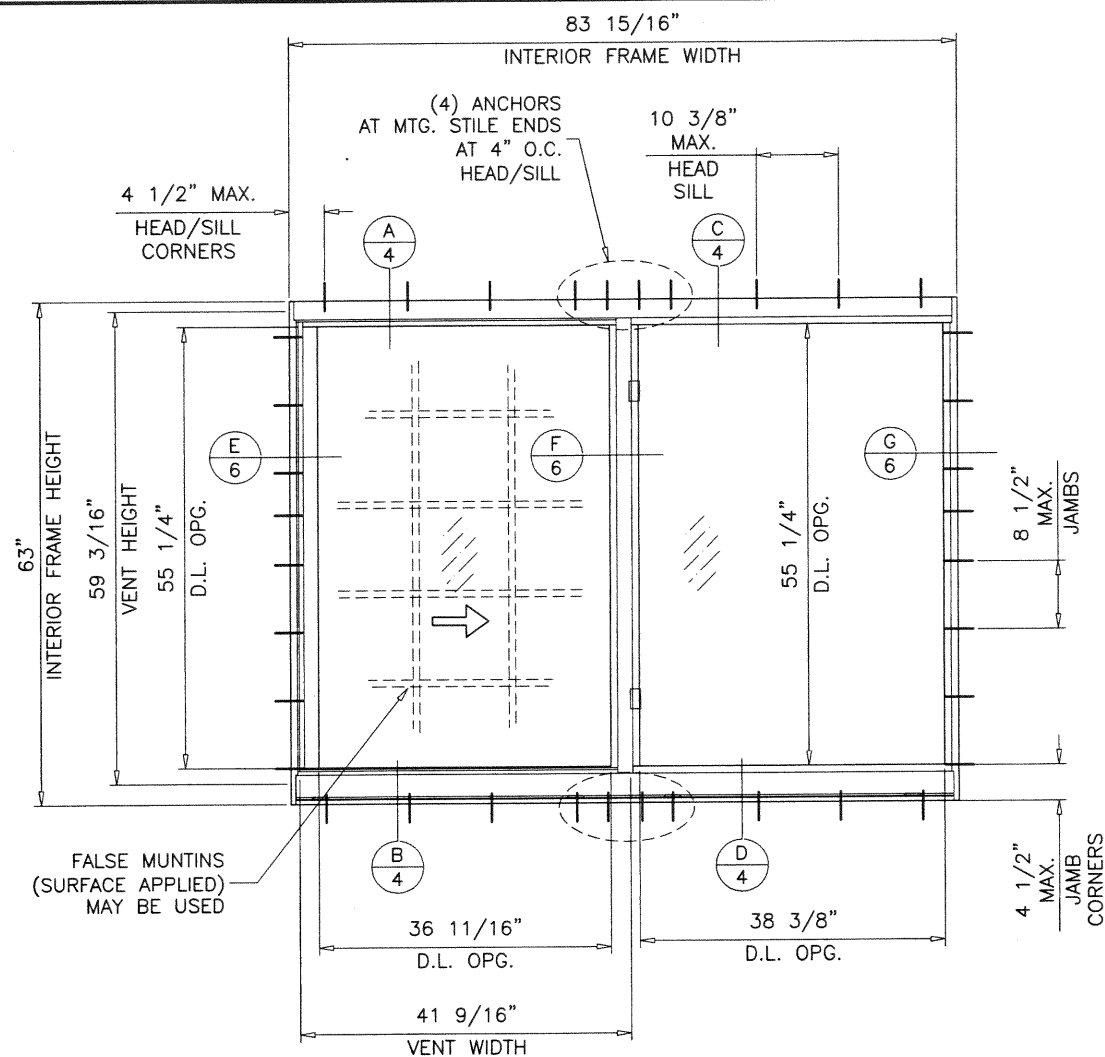
**Product Control Examiner**

**NOA No. 20-1202.05**

**Expiration Date: August 25, 2026**

**Approval Date: March 25, 2021**

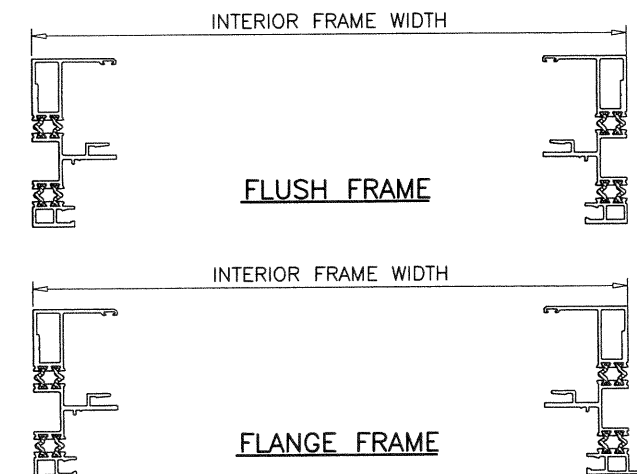




TYPICAL ELEVATIONS

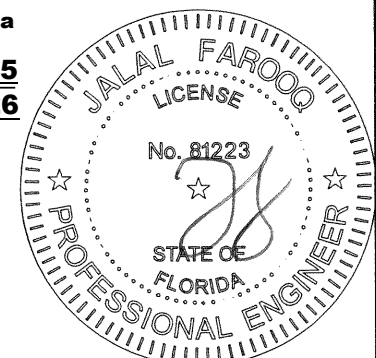
THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.  
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED  
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.  
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 110.0 PSF  
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES  
OF SHOWN ELEVATIONS.



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Fern*  
Miami-Dade Product Control

NOV 10 2020



## ES-SW340 (S.M.I.) THERMAL ALUMINUM HORIZONTAL SLIDING WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE  
COMBINATIONS OF H.R./H.R. OR HORIZ. SLIDING WITH OTHER  
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING  
MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.  
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL  
WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA  
BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE  
DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS  
TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS  
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE  
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.  
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT  
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE  
REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION  
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY  
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR  
WATER INFILTRATION RESISTANCE ETC.  
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,  
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

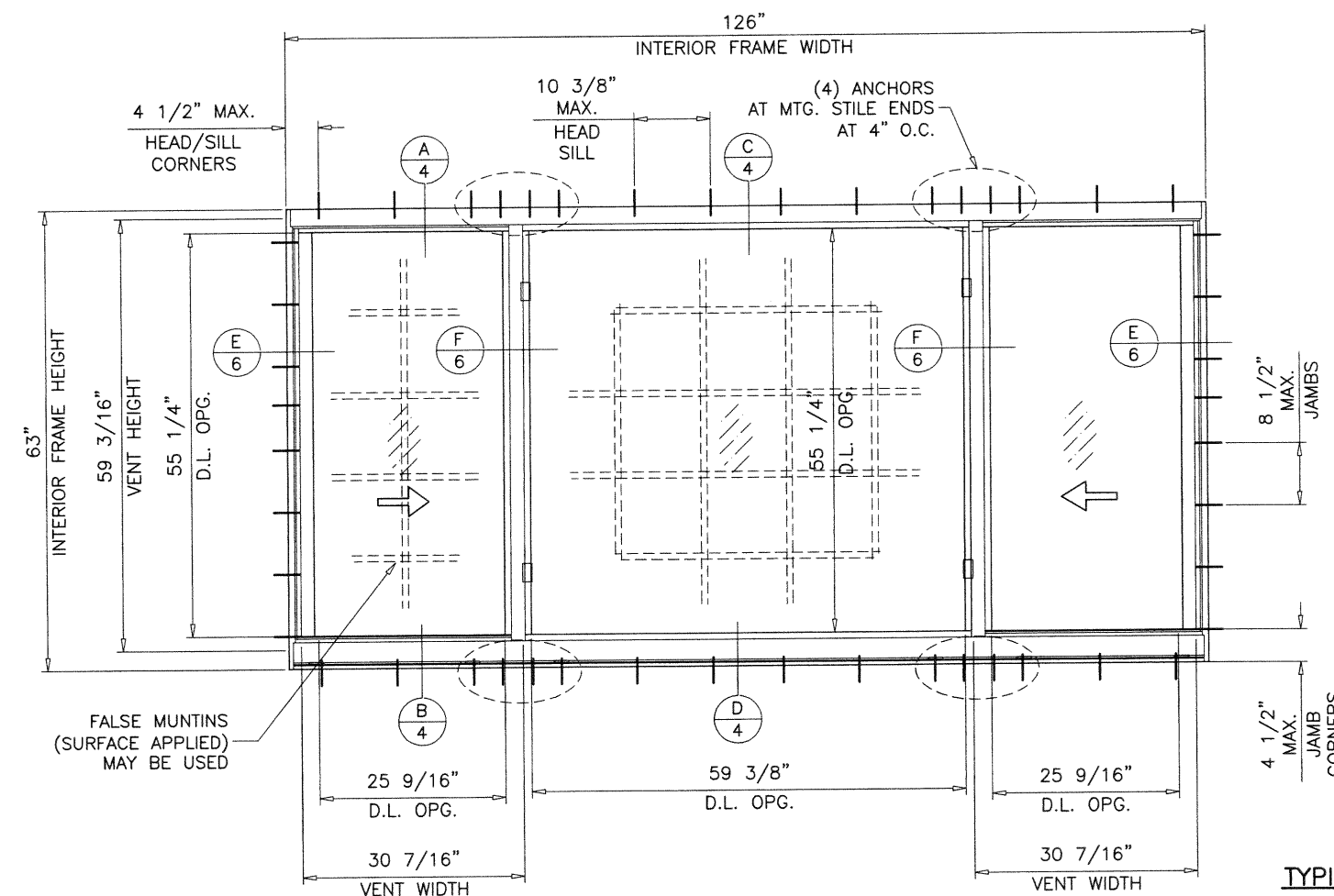
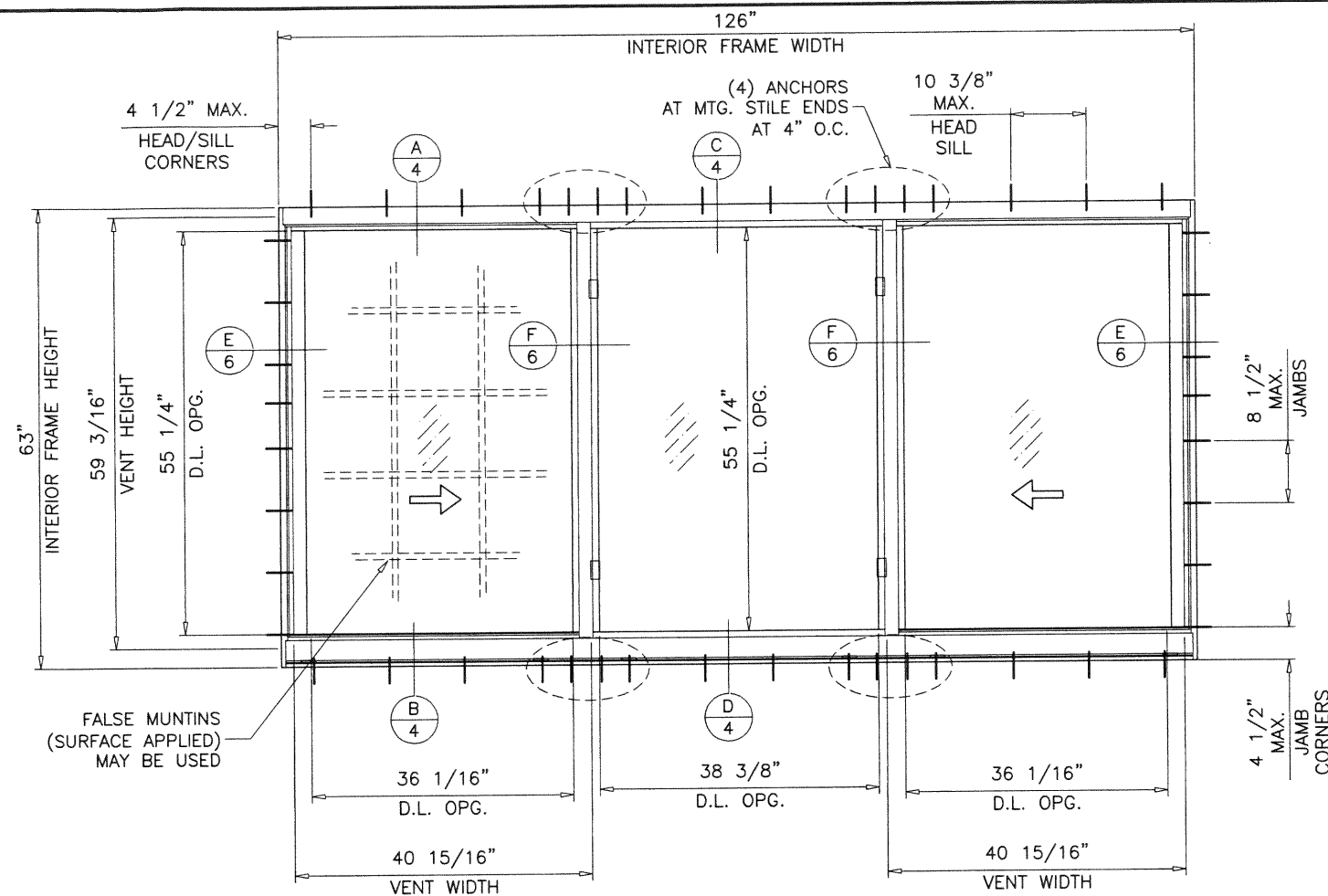
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	B	02.07.18		UPDATED TO 2017 FBC
	C	11.05.20		UPDATED TO 2020 FBC

date: 04-07-16	scale: 1/2" = 1'-0"	dr. by: TARIQ	chk. by:
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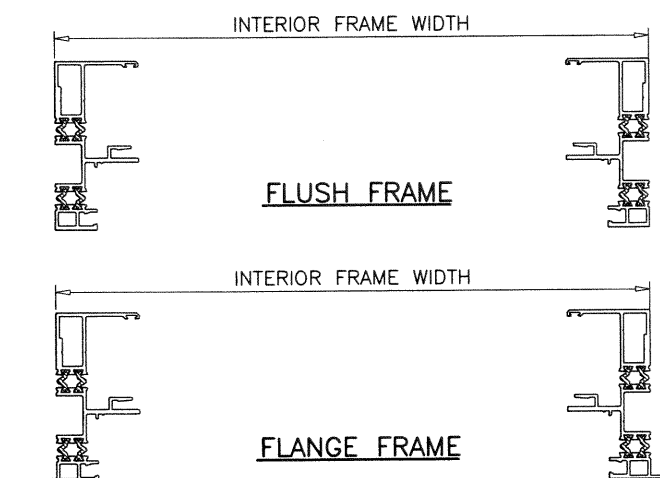
  

drawing no.	W16-22
sheet	1 of 11



TYPICAL ELEVATIONS

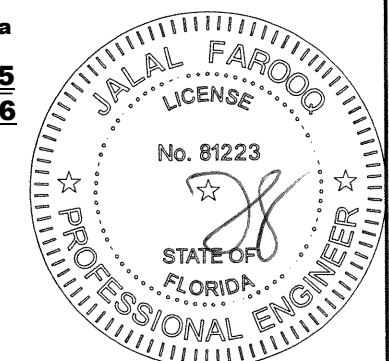
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 110.0 PSF  
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES  
OF SHOWN ELEVATIONS.



NOTE:  
GLASS CAPACITIES ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

NOV 10 2020

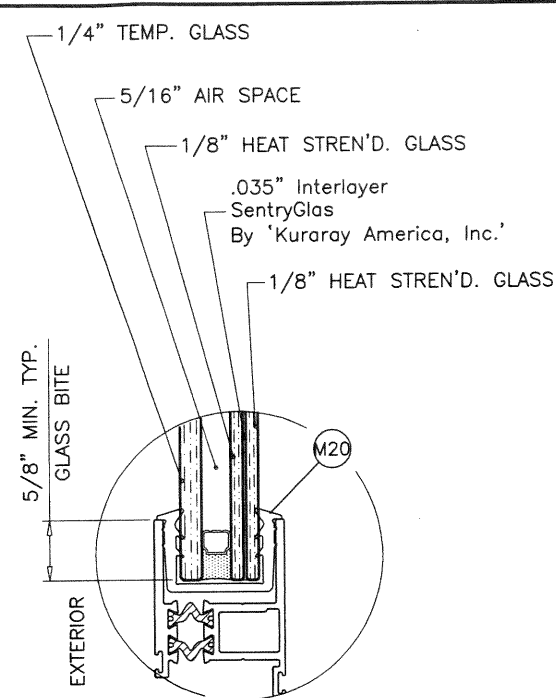


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-22ESW

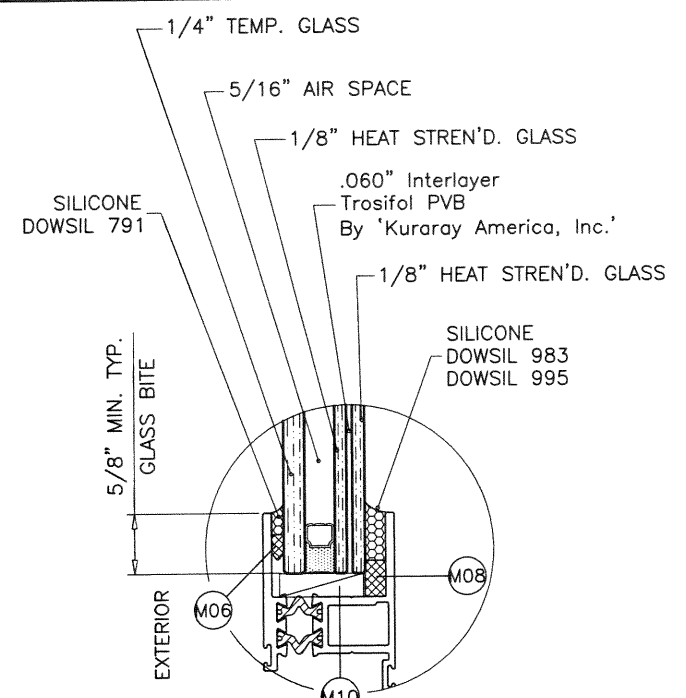
ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:				
no	date	by	description	
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chk. by:				
drawing no.				
W16-22				
sheet 2 of 11				

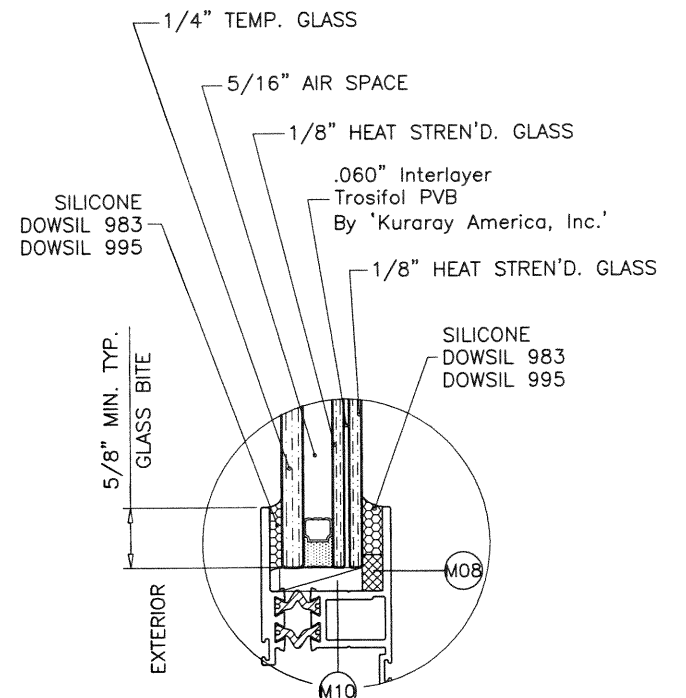




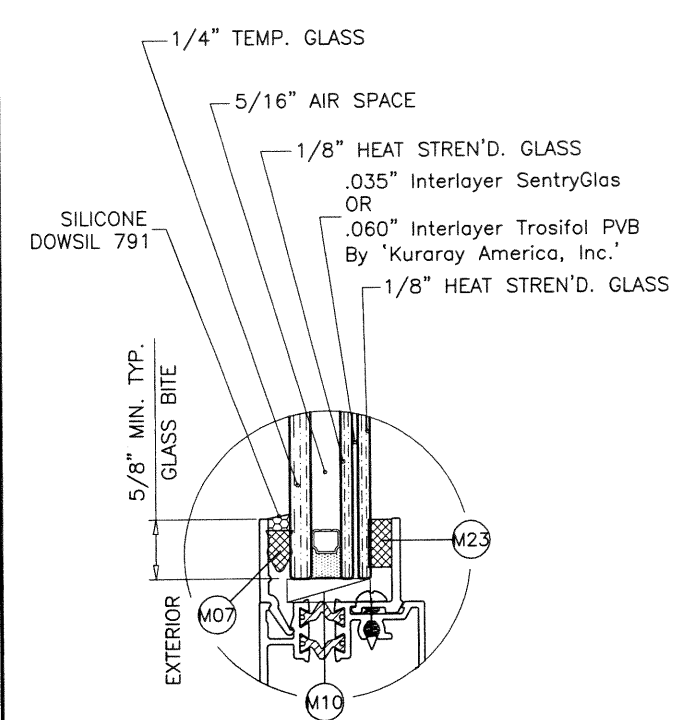
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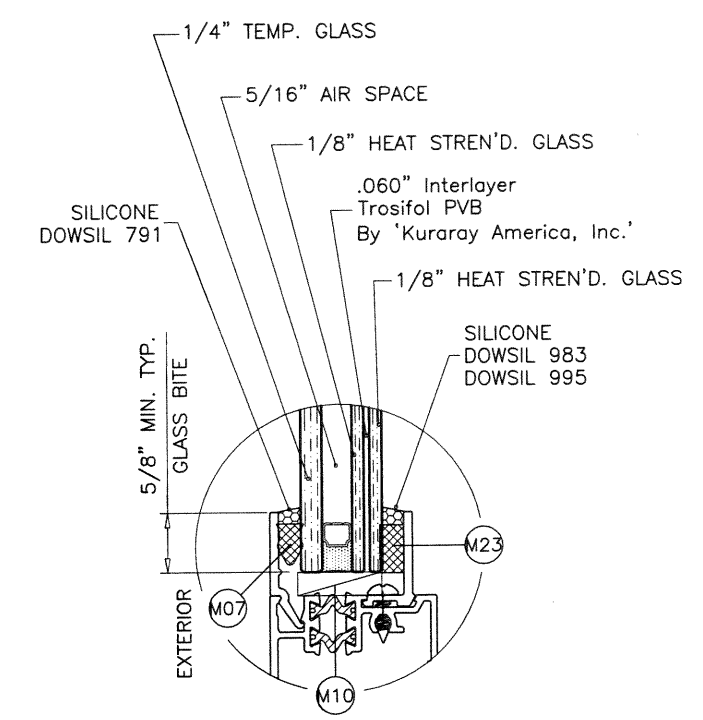
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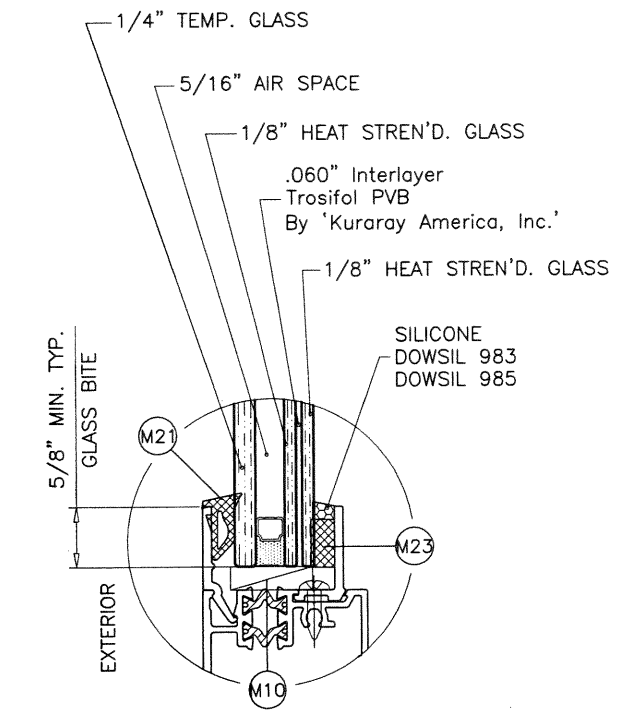
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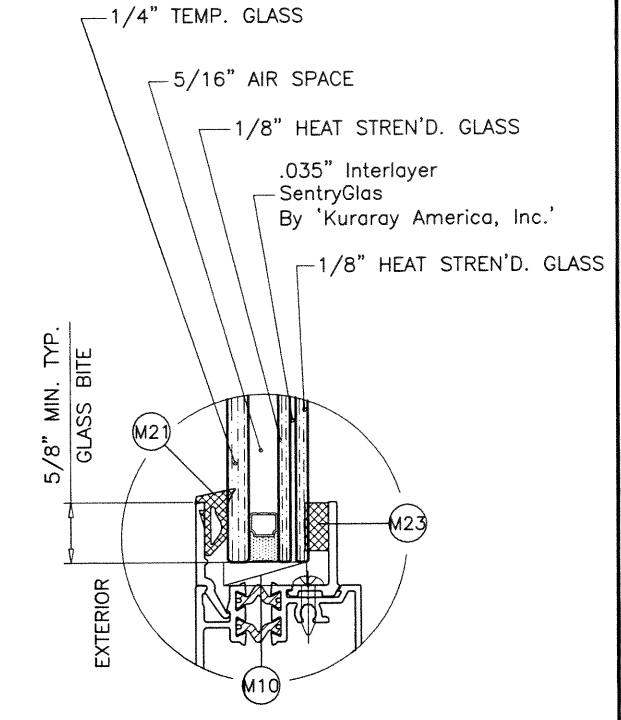
FIX. LITE



FIX. LITE



FIX. LITE



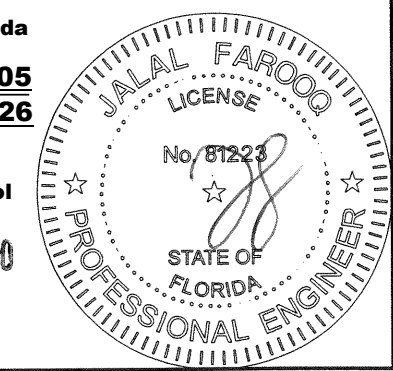
FIX. LITE

**GLAZING DETAILS**  
7/8" OVERALL INSUL. LAM. GLASS

5/16" AIR SPACE CONSISTING OF:  
SPACER:  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
PERIMETER SEALANT:  
SILICONE  
DOWSIL 791  
GE 2000

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Ferrer*  
Miami-Dade Product Control

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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W16-22ESW

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ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)

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revisions:		no.	date	by	description
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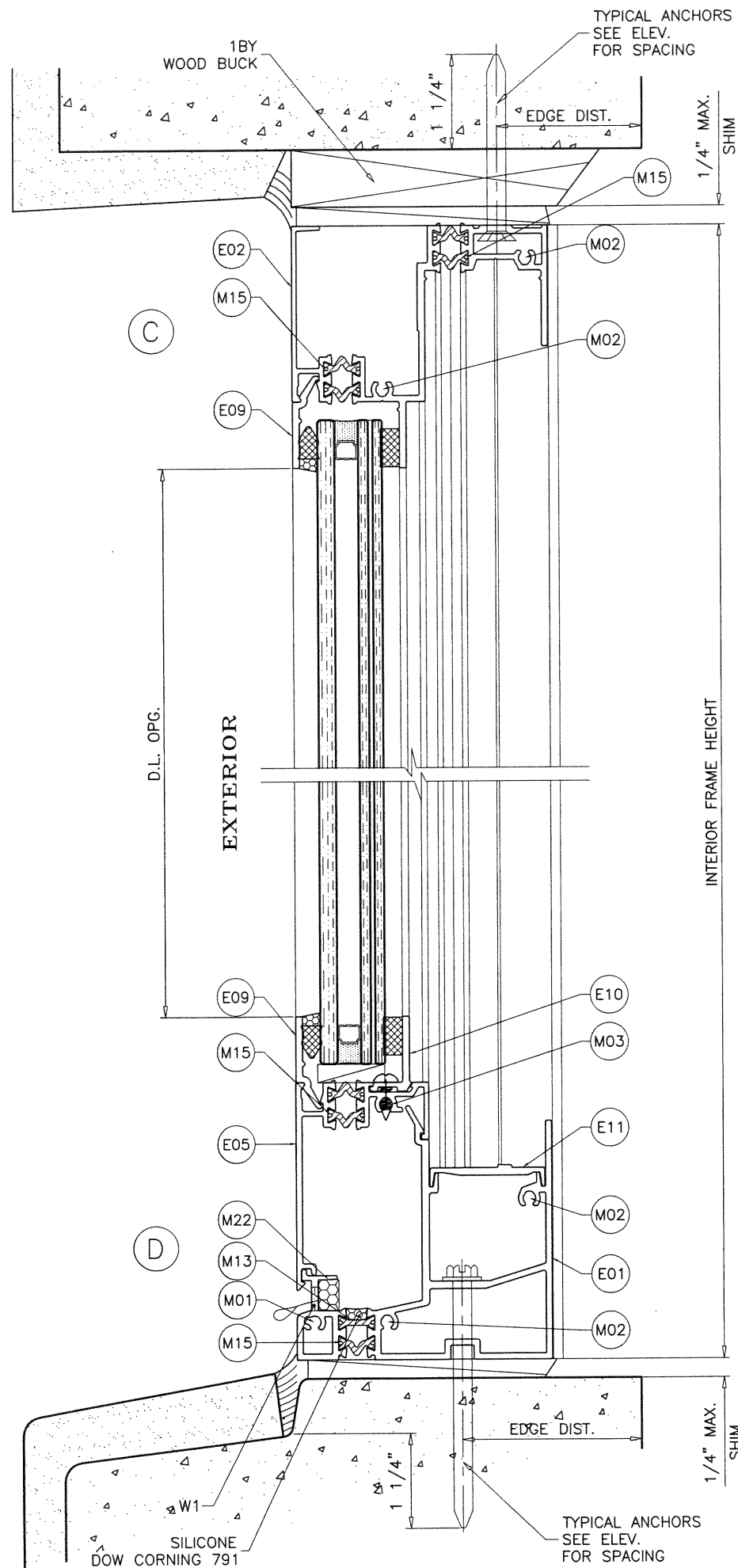
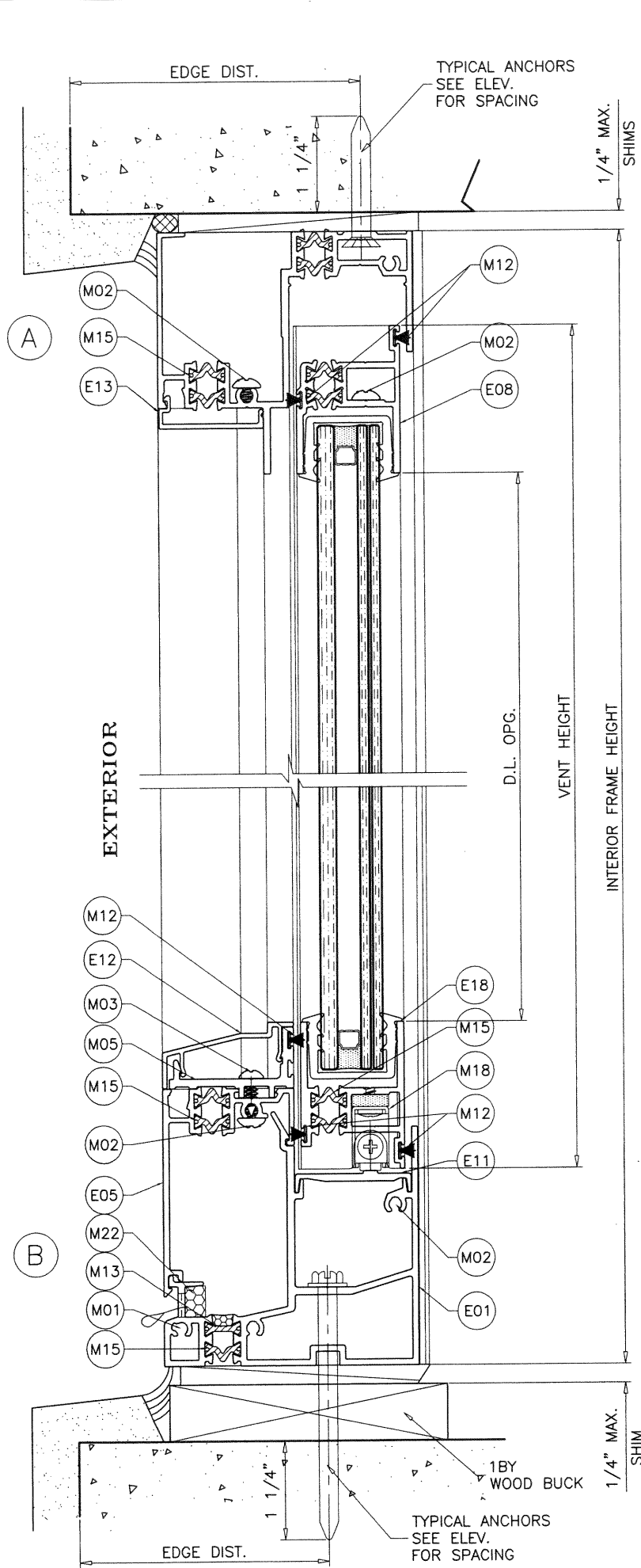
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drawing no.

W16-22

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sheet 3 of 11

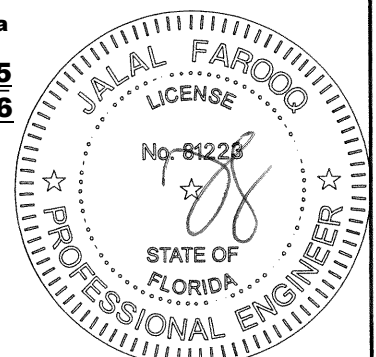


# WEEPHOLES:

- W1 = (2) 3/16" X 2" WEEPHOLES AT EACH VENT
- (2) 3/16" X 2" WEEP HOLES AT FIX. LITE

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Ferraz*  
Miami-Dade Product Control

NOV 10 2020



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-22ESW

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
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TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	description
A	06.08.16	1	06.08.16	REV. PER RER COMMENTS
B	02.07.18	2	02.07.18	NO CHANGE THIS SHEET
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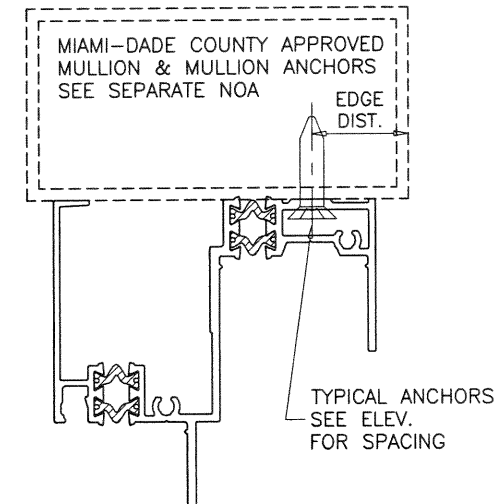
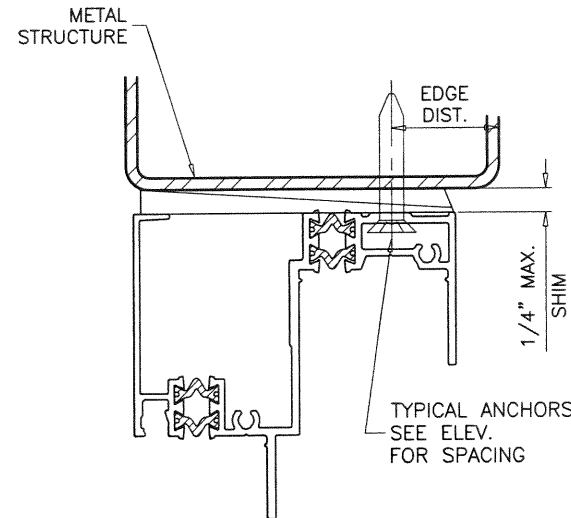
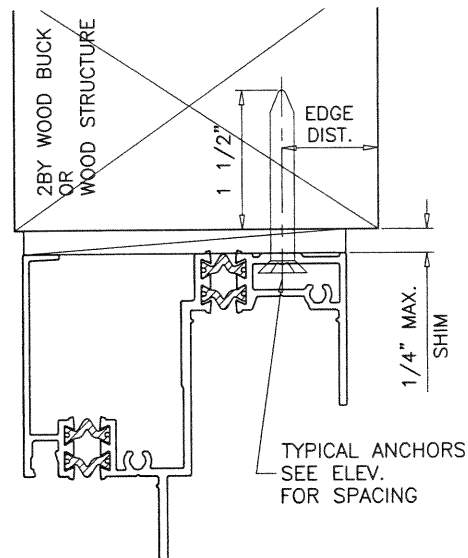
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drawing no.	W16-22
sheet	4 of 11



WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS'  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**#14 DIA. CRETE-FLEX SS4 BY 'DEWALT'** (Fu=190 KSI, Fy=127 KSI)

**1/4" DIA. AGGRE-GATOR 300 BY 'DEWALT'** (Fu=96 KSI, Fy=57 KSI)

**1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

**1/4" DIA. ULTRACON SS4 410 BY 'DEWALT'** (Fu=190 KSI, Fy=164 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

**1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'DEWALT'** (Fu=96 KSI, Fy=57 KSI)

**1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT'** (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

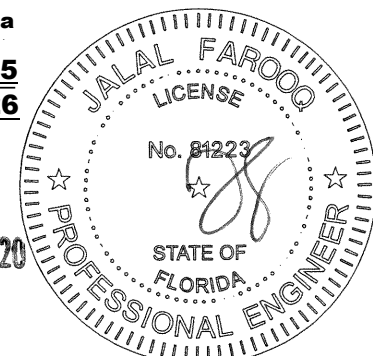
#### ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

NOV 10 2020



ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

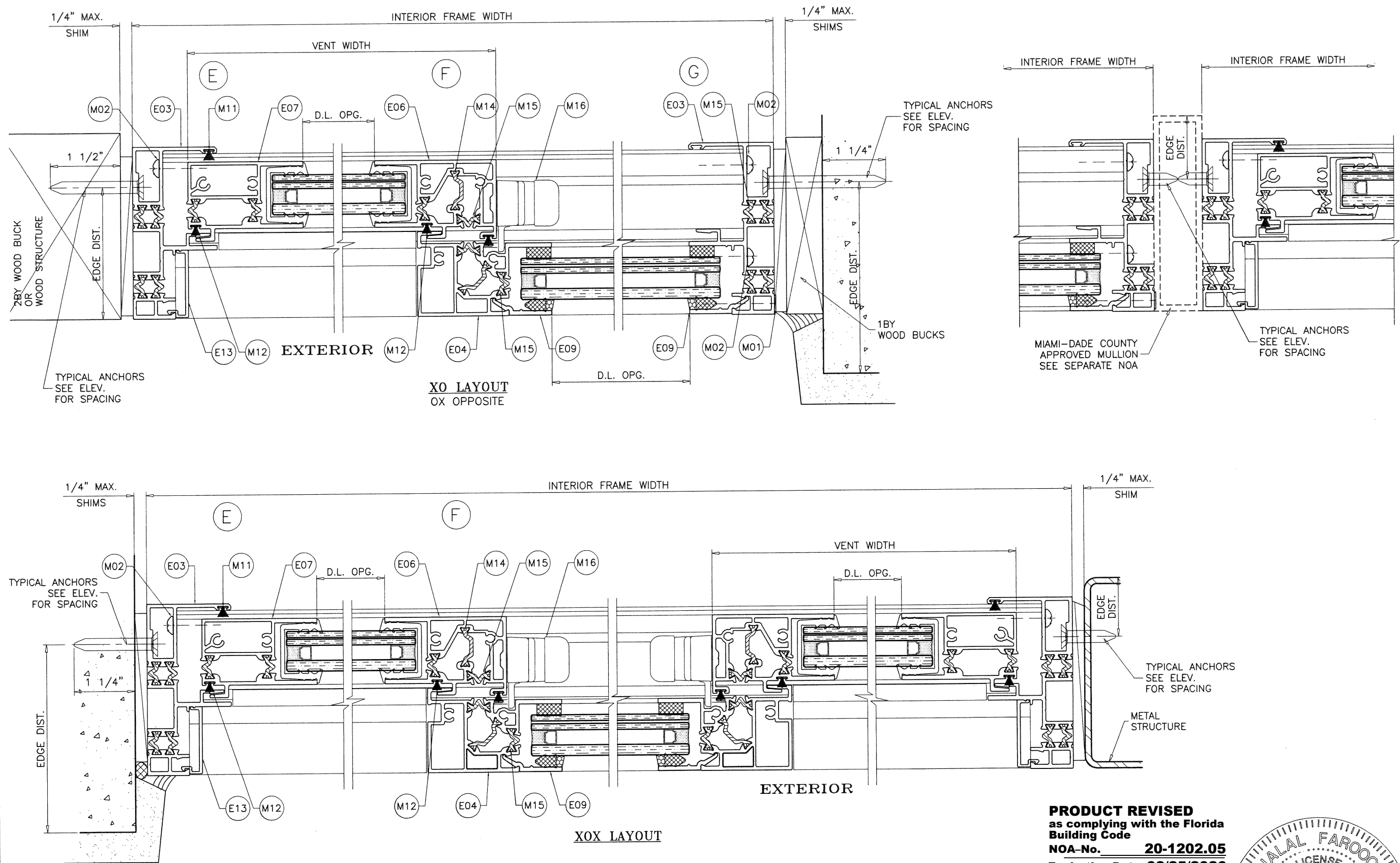
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	B	02.07.18		UPDATED TO 2017 FBC
	C	11.05.20		UPDATED TO 2020 FBC

date: 04-07-16	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.  
**W16-22**  
sheet 5 of 11

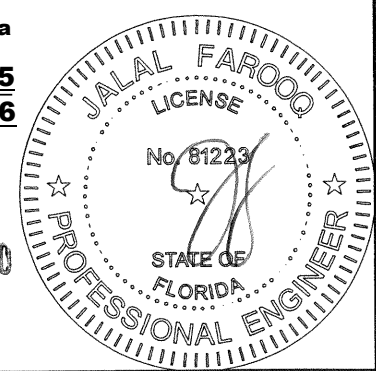
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W16-22ESW



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. **20-1202.05**  
 Expiration Date: **08/25/2026**  
 By: *Manuel Ferrer*  
 Miami-Dade Product Control

NOV 10 2020



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 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
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 TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL W16-22ESW

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ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)

**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
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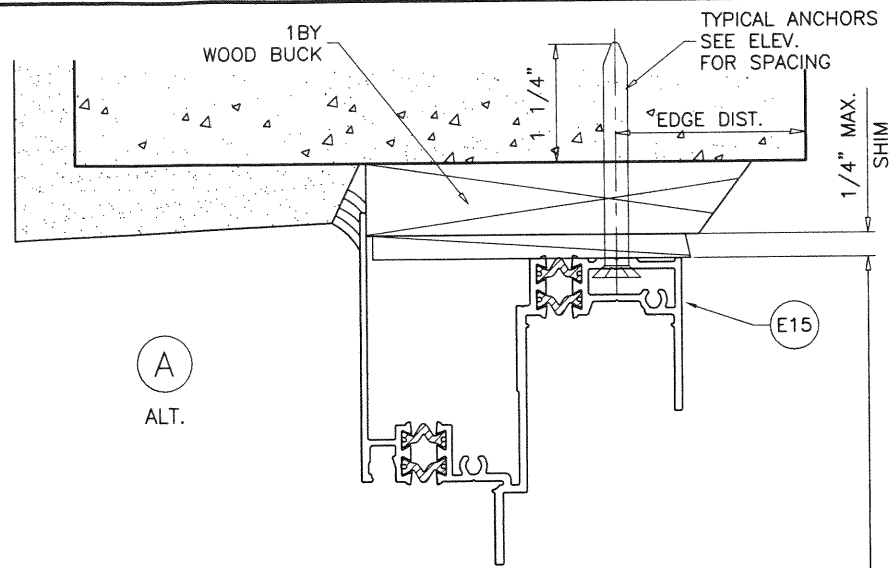
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C	11.05.20		UPDATED TO 2020 FBC

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 chk. by:

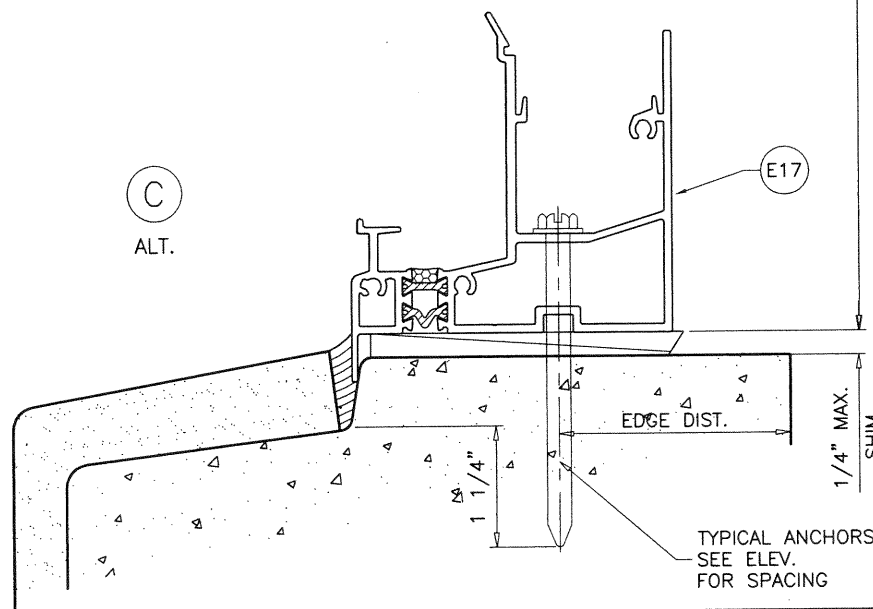
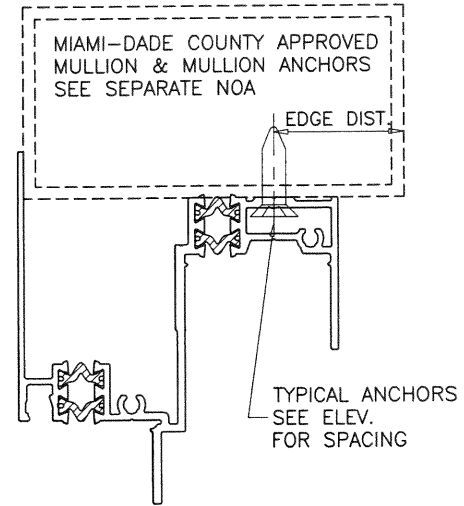
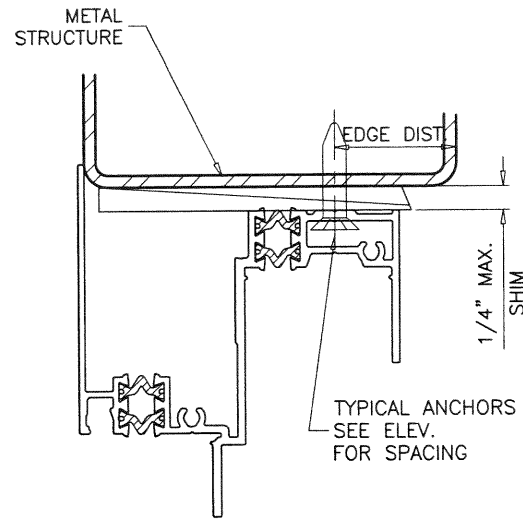
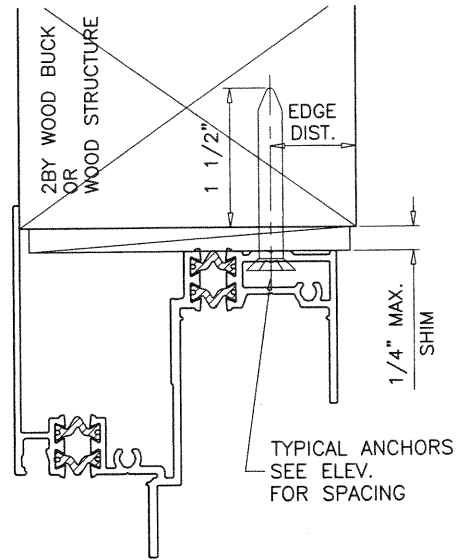
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**W16-22**  
 sheet 6 of 11



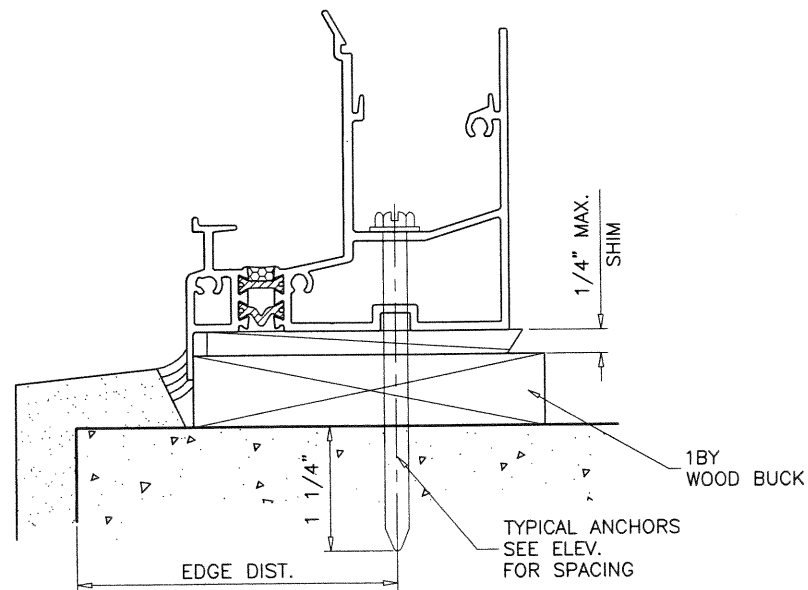


(A)  
ALT.

INTERIOR FRAME HEIGHT



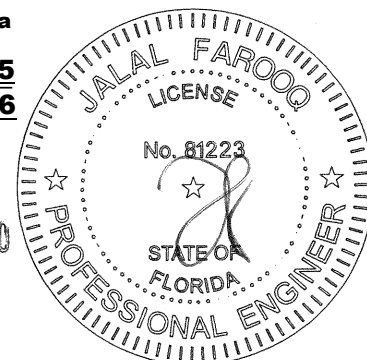
(C)  
ALT.



# INSTALLATION DETAILS WITH FLANGE FRAMES

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Ferraz*  
Miami-Dade Product Control

NOV 10 2020



ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)  
**E.S. WINDOWS, LLC**  
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MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

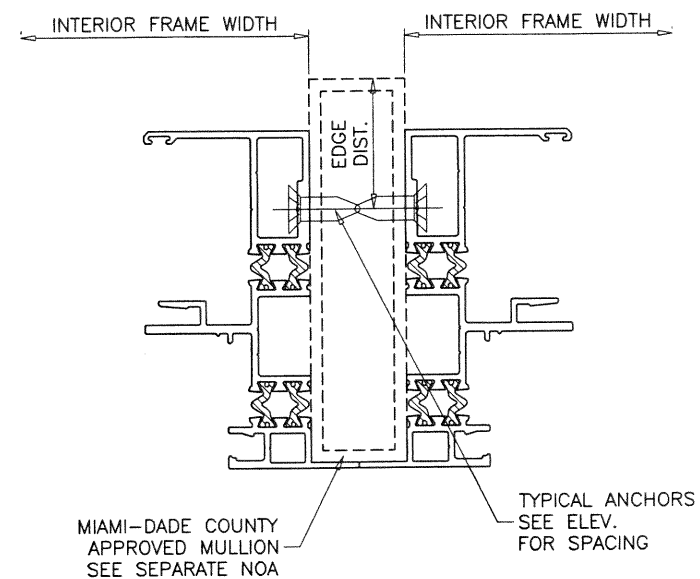
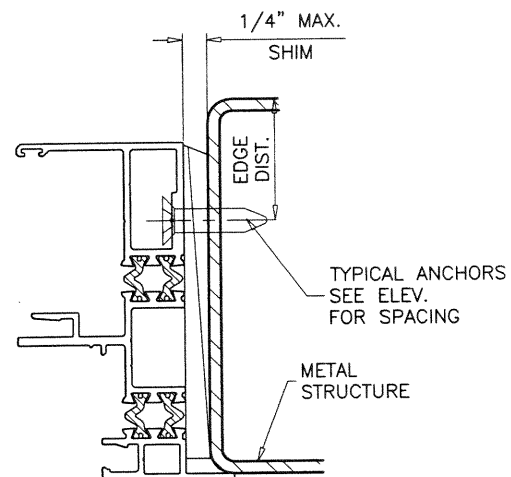
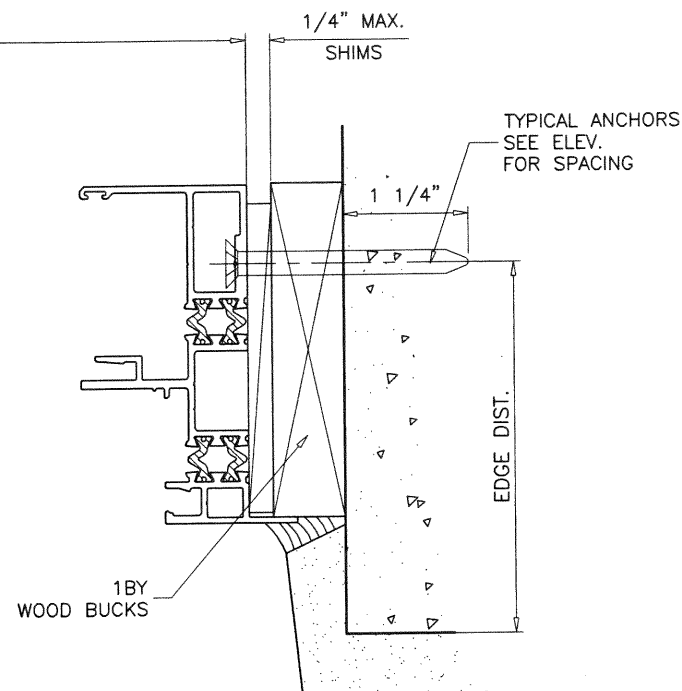
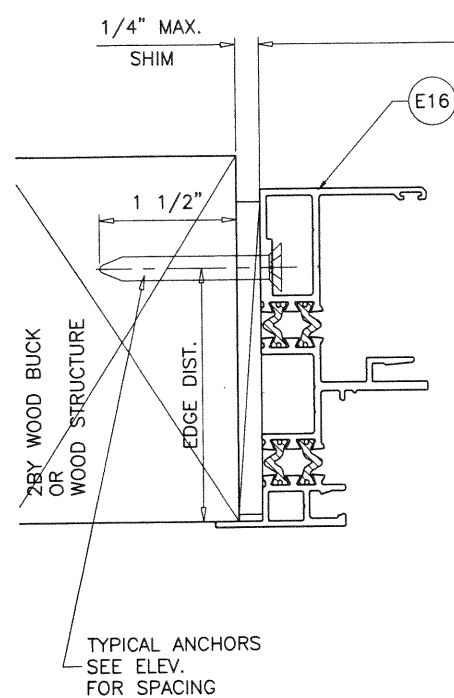
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scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W16-22**  
sheet 7 of 11

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
C.A.N. 3538)  
COMP-ANL\W16-22ESW

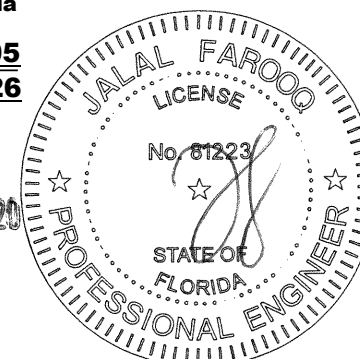




# INSTALLATION DETAILS WITH FLANGE FRAMES

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

NOV 10 2020



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ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

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revisions:		description	
no	date	by	
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date: 04-07-16	scale: 1/2" = 1"	dr. by: TARIO	chk. by:
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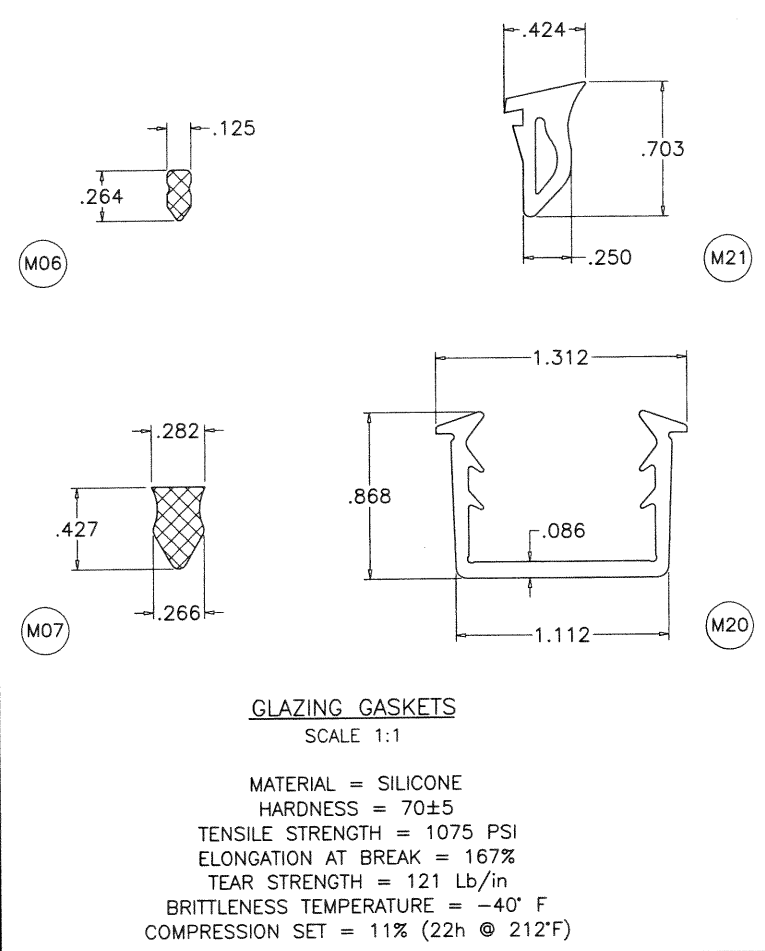
drawing no.	W16-22
sheet	8 of 11

COMP-ANL\W16-22ESW

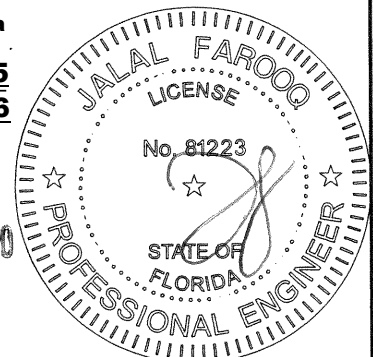
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-SW340-501	1	FRAME SILL FLUSH	6063-T6	-
E02	ES-H340-505	1	FRAME HEAD FLUSH	6063-T6	-
E03	ES-SW340-502	2	FRAME JAMB FLUSH	6063-T6	-
E04	ES-H340-507	AS REQD.	FIX. MEETING RAIL	6063-T6	-
E05	ES-SW340-503	-	FIXED BOTTOM	6063-T6	-
E06	ES-H340-508	-	VENT SIDE RAIL	6063-T6	-
E07	ES-SW340-504	2/ VENT	VERTICAL RAIL	6063-T6	-
E08	ES-H340-510	1/ VENT	VENT TOP RAIL	6063-T6	-
E09	ES-H340-003	4/ LITE	GLASS STOP	6063-T6	-
E10	ES-SW340-005	4/ LITE	HORIZONTAL FIXED GLASS STOP	6063-T5	-
E11	ES-SW340-006	1/ VENT	TRACK	6063-T6	-
E12	ES-SW340-007	-	COVER	6005-T5	-
E13	ES-H340-021	-	HORIZONTAL/VERTICAL TRIM	6063-T5	-
E14	ES-H340-007	-	TRIM FOR SCREEN	6063-T5	-
E15	ES-H340-506	1	FRAME HEAD FLANGE	6063-T6	-
E16	ES-SW340-506	2	FRAME JAMB FLANGE	6063-T6	-
E17	ES-SW340-505	1	FRAME SILL FLANGE	6063-T6	-
E18	ES-SW340-507	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
M01	#10 X 1-1/2" FH	AS REQD.	FRAME ASSEMBLY FASTENER	ST/ST	-
M02	#10 X 1" PH	-	FRAME AND FIX. PANEL FASTENERS	ST/ST	-
M03	#8 X 1/2" PH	-	FOR ROLLER, PLASTIC PROFILE AND GLASS STOP	ST/ST	SPACED AT 10" O.C.
M04	#8 X 3/4" FH SMS	-	SWEEP LOCK FASTENER	-	-
M05	ES-SW340-301	-	PLASTIC EXTRUSION	RIGID PVC	-
M06	ES-H340-G05	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M07	ES-H340-G02	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M08	V2200	AS REQD.	GLAZING TAPE (3/16" X 3/8")	FOAM	-
M10	ES-21-B04A	2 LITE	SETTING BLOCKS	SILICONE	DUROMETER 80±5 SHORE A
M11	W23212NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M12	W23202NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M13	1142	AS REQD.	INSULBAR 12 MM FLAT	POLYAMIDE	ENSINGER
M14	2479	AS REQD.	INSULBAR 20 MM OFFSET	POLYAMIDE	ENSINGER
M15	2531	AS REQD.	INSULBAR 12 MM OFFSET	POLYAMIDE	ENSINGER
M16	3032	1/ VENT	SWEEP LOCK	DIE CAST ALUM	AT 13" FROM EACH END
M17	ES1050-PL1	-	FLAT BOLT	ST/ST	-
M18	RU-340-IR	2/ VENT	TANDEM ROLLER	ST/ST	AT 5" FROM EACH END
M20	ES-H340-G01	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M21	PS-1127E	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M22	ES-SD450-F01	AS REQD.	RETICULATED FOAM (5/8" X 5/8" X 2")	FOAM	-
M23	80-378A	-	GLAZING GASKET	EPDM	DUROMETER 80±5 SHORE A

#### SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH 'ACCURA' ARCYLIC LATEX SEALANT BY 'M-D BUILDING PRODUCTS'.

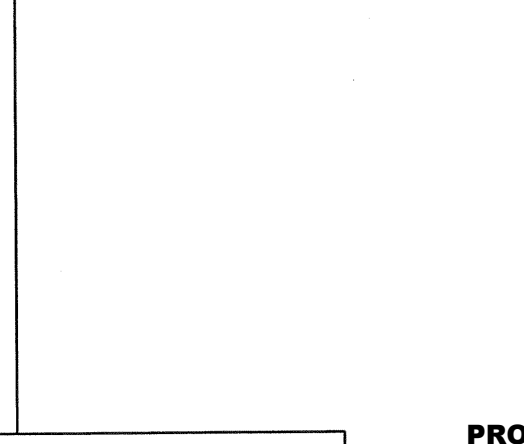
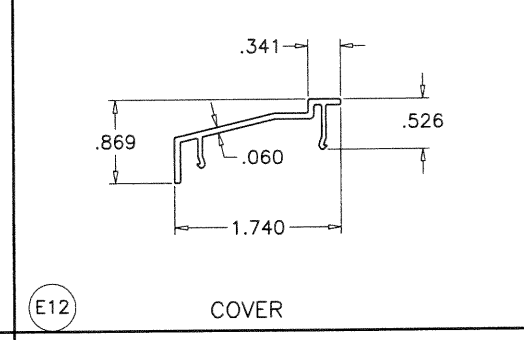
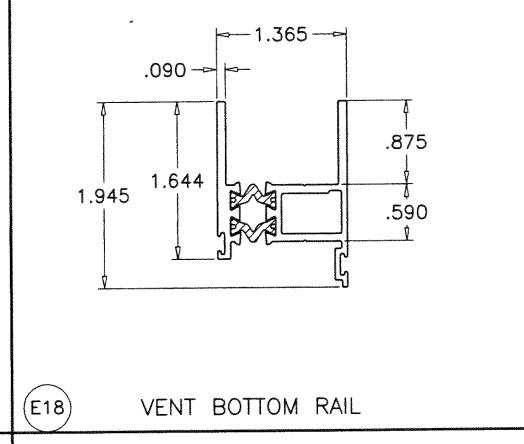
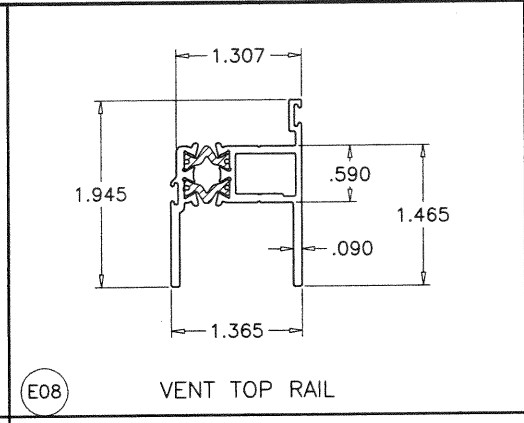
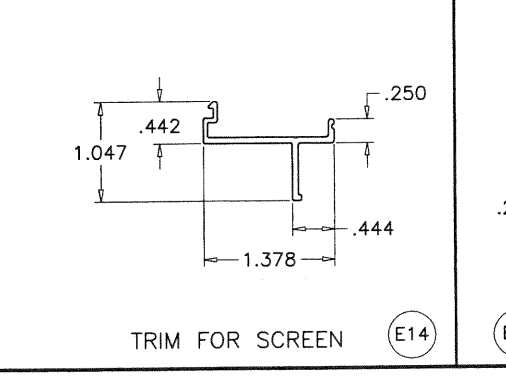
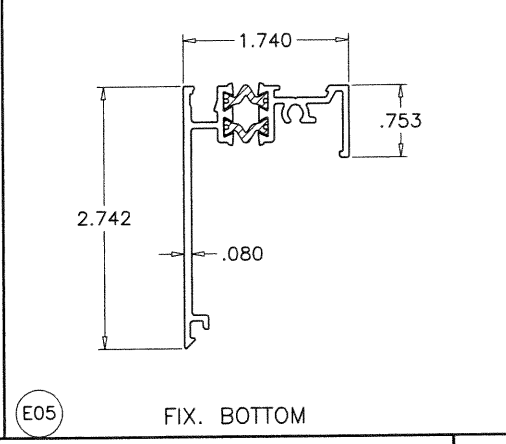
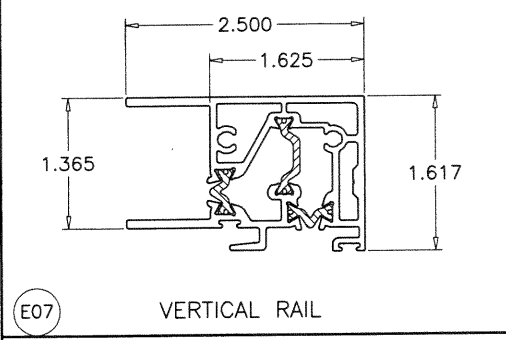
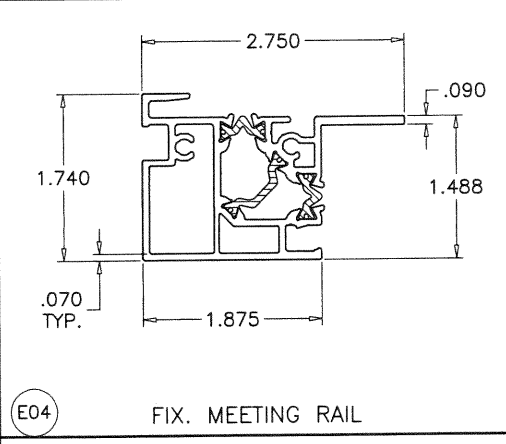
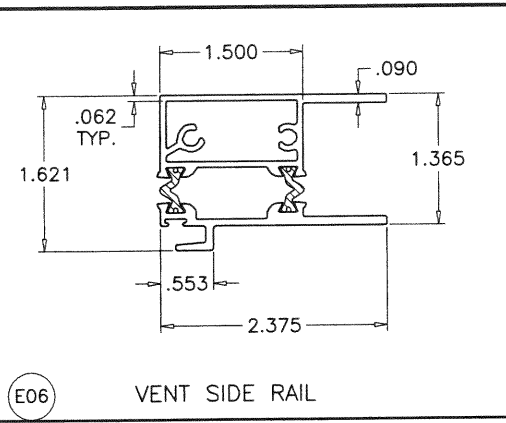
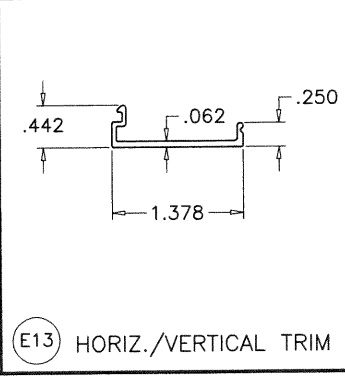
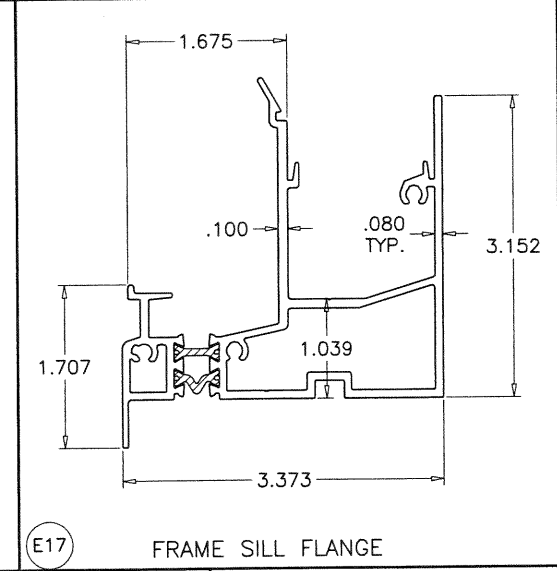
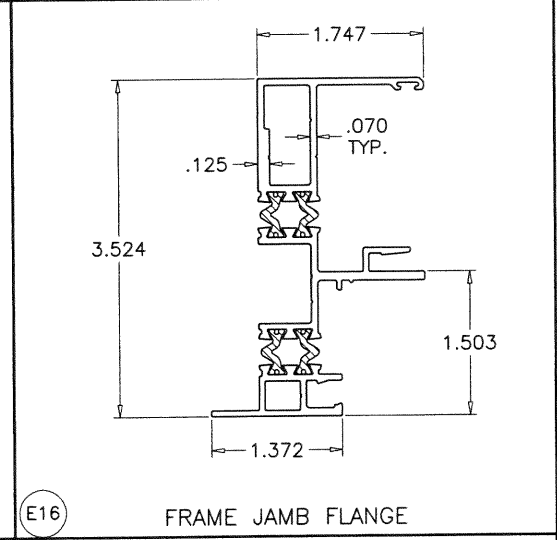
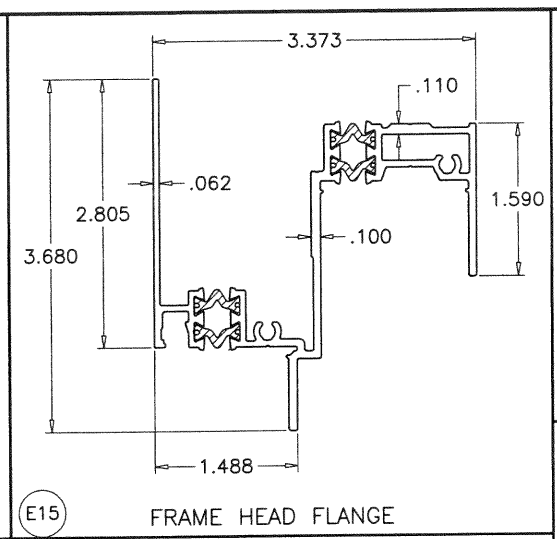
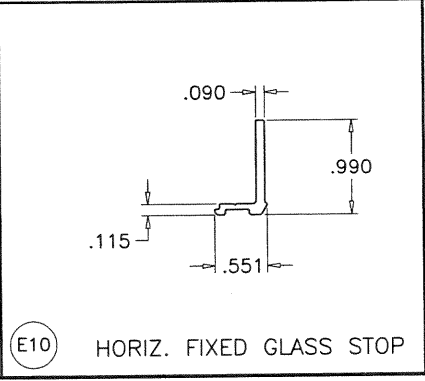
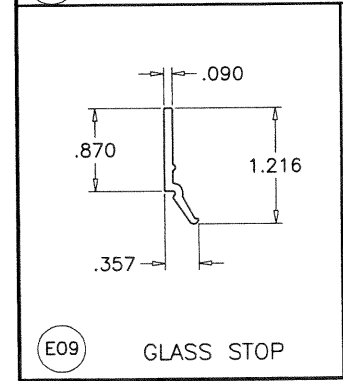
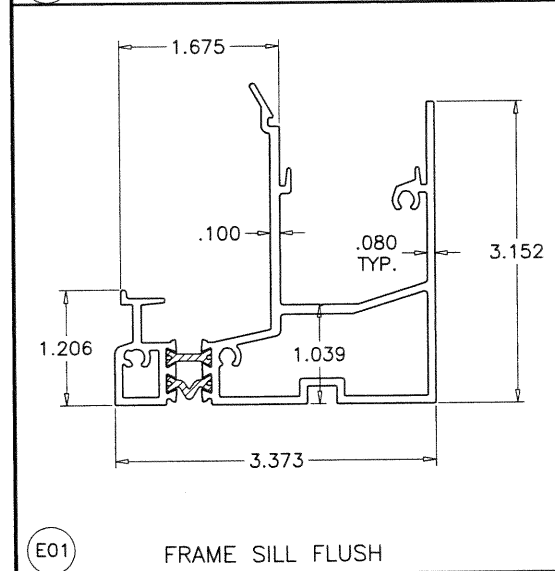
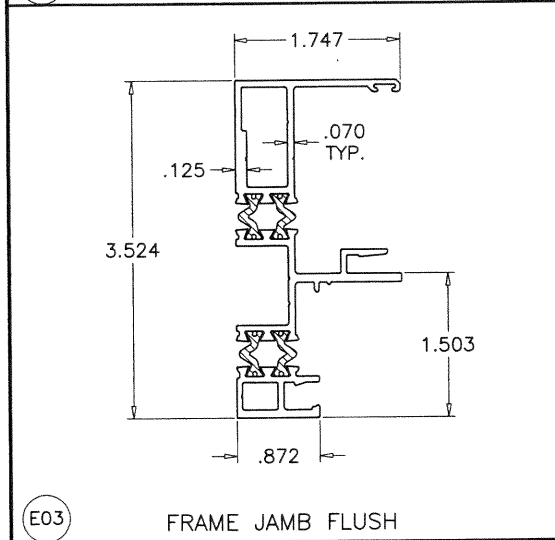
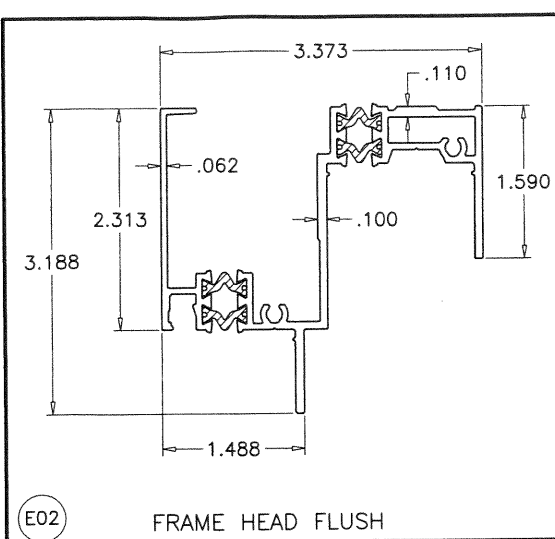


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control



NOV 10 2020

<b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 262-6978 FAX. (305) 264-8100 COMP-ANL\W16-22ESW		<b>E.S. WINDOWS, LLC</b> 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
		ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)	
revisions: no. date by description A 06.08.16 REV. PER RER COMMENTS B 02.07.18 NO CHANGE THIS SHEET C 11.05.20 UPDATED TO 2020 FBC	date: 04-07-16 scale: 1/2" = 1" dr. by: TARIQ chk. by:	drawing no. <b>W16-22</b> sheet 9 of 11	



M13 12MM FLAT

M14 20MM OFFSET

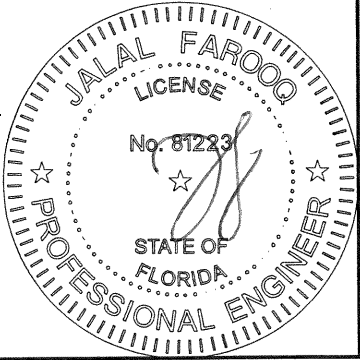
M15 12MM OFFSET

TECATHERM® 66 GF INSULBARS  
SCALE 1:1

MATERIAL = POLYAMIDE  
TENSILE STRENGTH = 13031 PSI  
RATE OF BURN = .752 IN./MIN.  
SELF IGNITION TEMP. = 793° F  
FLASH IGNITION TEMP. = 781°C  
SMOKE DENSITY = 1.63

**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Ferns*  
Miami-Dade Product Control

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ENGINEERS & PRODUCT DEVELOPMENT  
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COMP-ANL\W16-22ESW

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)

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MIAMI, FL. 33142  
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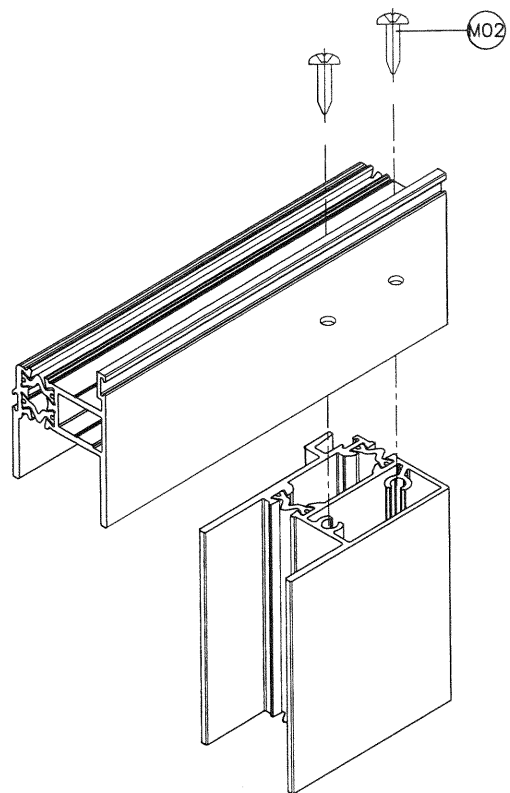
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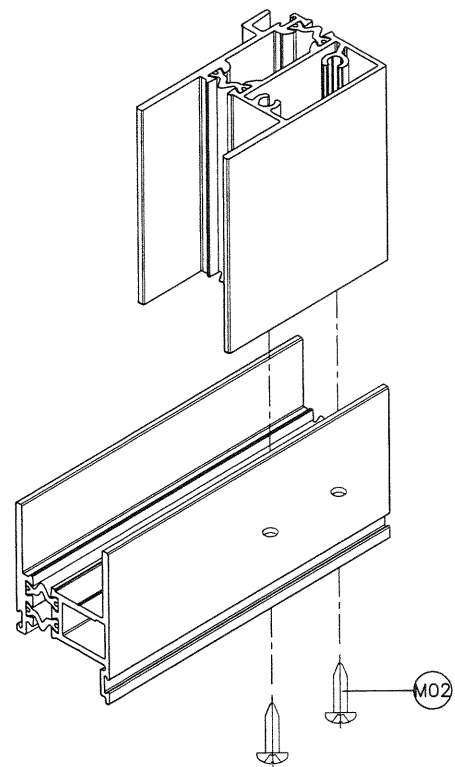
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drawing no.  
**W16-22**  
sheet 10 of 11

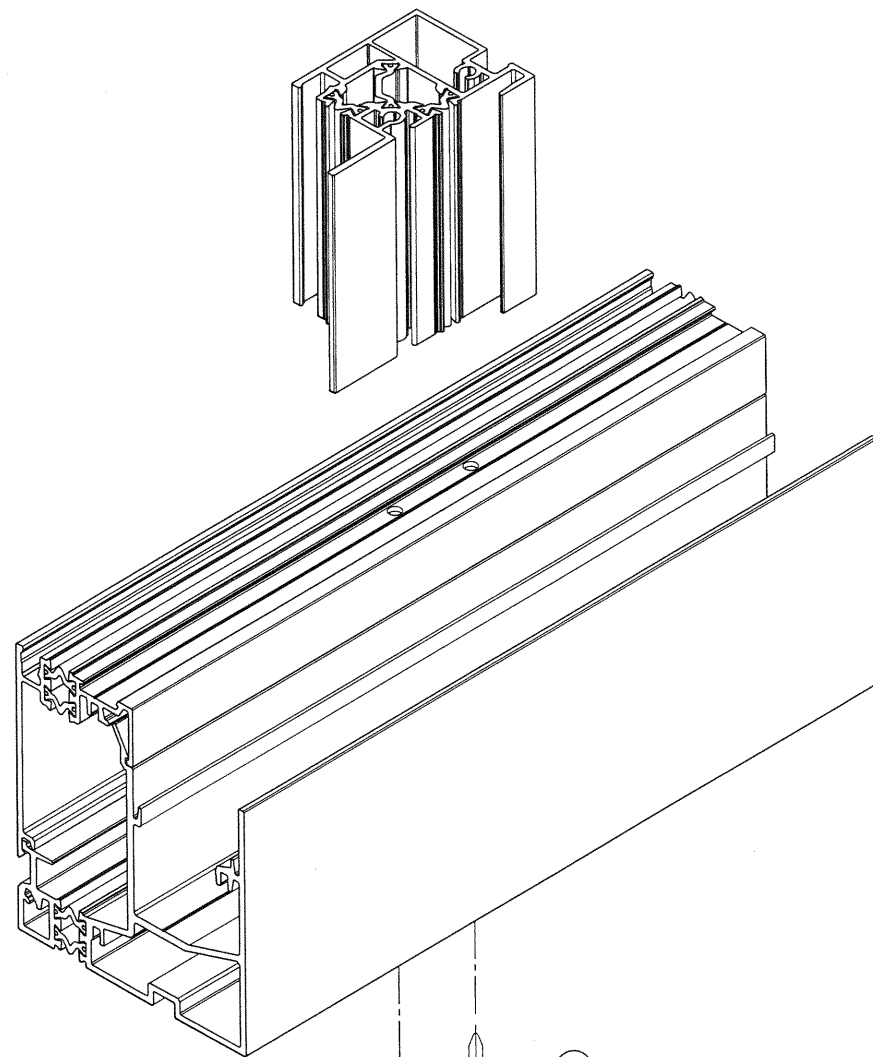




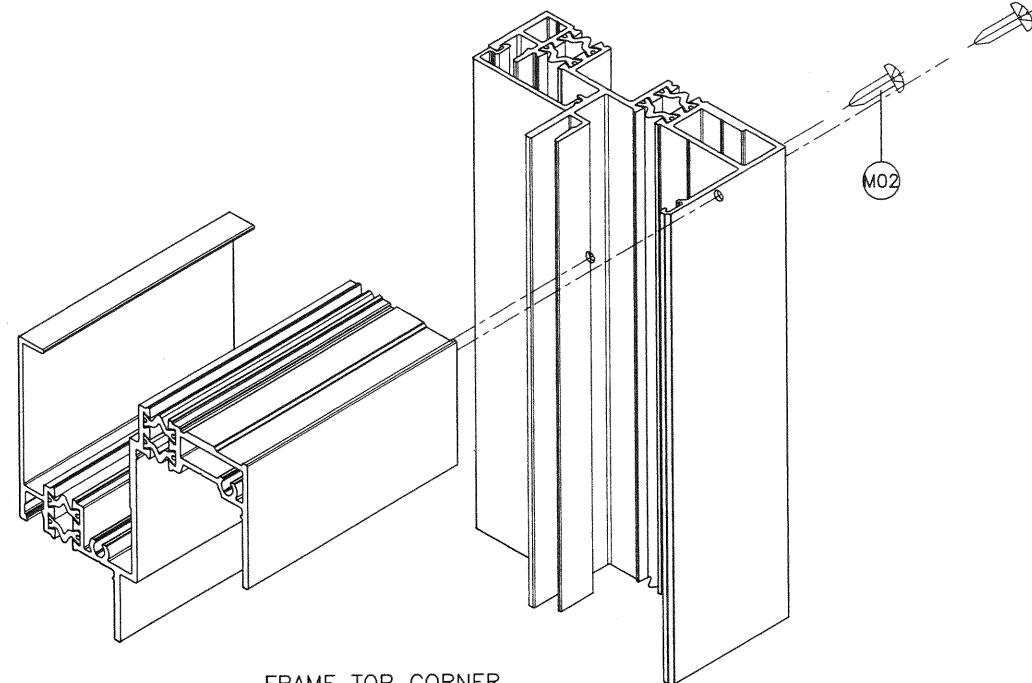
VENT TOP CORNERS



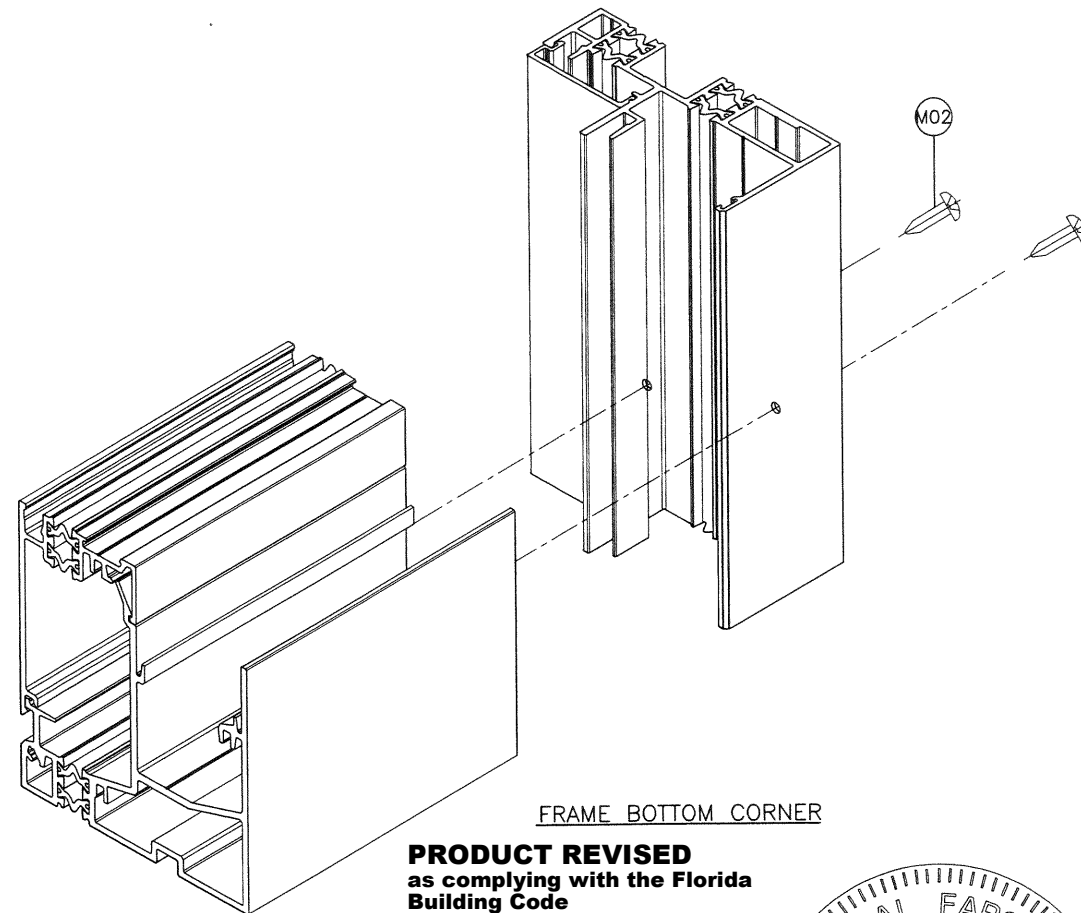
VENT BOTTOM CORNERS



FIXED MTG. RAIL CORNER



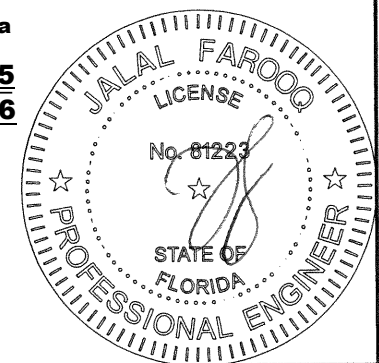
FRAME TOP CORNER



FRAME BOTTOM CORNER

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1202.05**  
Expiration Date: **08/25/2026**  
By: *Manuel Torres*  
Miami-Dade Product Control

NOV 10 2020



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	A	06.08.16		NO CHANGE THIS SHEET
	B	02.07.18		NO CHANGE THIS SHEET
	C	11.05.20		UPDATED TO 2020 FBC

date: 04-07-16	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.  
**W16-22**

sheet 11 of 11

COMP-ANL\W16-22ESW